HP **LTO** Ultrium 3 Tape Drive – Half-height

High reliability, capacity and performance at a value line price

As HP's highest capacity and fastest half-height drive, HP LTO Ultrium 3 Half-height offers superdrive reliability, capacity and performance in a compact form factor. An ideal direct attach, rack-mount and network backup solution for entry-level and midrange servers or entry level automation where capacity, space optimization and low cost of ownership are critical, the HP LTO Ultrium 3 half height tape drive stores 400GB of data on a single tape at up to 216GB per hour.

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Key features and benefits

- **High Value:** High capacity combined with low media and drive cost delivers an exceptionally low cost of ownership.
- **Compact:** Half-height form factor saves space and fits in a wide variety of servers, workstations and autoloaders.
- **Dependable:** Incorporates high reliability in a robust drive with high standards of data integrity.
- **Backup more data in less time:** HP's fastest half-height LTO Ultrium drive with 216GB per hour transfer rate and 400GB per cartridge capacity. Performance optimized by unique dynamic Data Rate Matching feature.
- **Well connected:** Compatible with leading operating systems, backup software and servers.
- **Investment protection:** Backward compatible with LTO Ultrium 1 & 2 media. Delivers compelling migration path that will double in capacity every generation.

Specifications

Capacity	400GB native, typically 800GB with hardware data compression
Recording format	
Logical recording format:	LTO Ultrium 3, LTO Ultrium 2 and LTO Ultrium 1 (read)
Recording technology:	16 channel PRML linear serpentine recording on half-inch tape media
Performance	
Data compression:	LTO-DC dual mode compression (enhanced version of ALDC)
Memory buffer:	128MB
Data rate matching	Dynamically variable adaptive tape speed to match host data rate from 26-60MB/sec (native)
Interface:	Ultra-320 SCSI Wide (native), Serial Attached SCSI 3Gbps
Sustained transfer rate:	Up to 60MB/sec native (216GB/hr) Up to 120MB/sec compressed (432GB/hr)
Burst transfer rate:	320 MB/s (with Ultra 320 SCSI Wide Bus)
Data access speed:	70 seconds typical from beginning of media
Tape speed:	5.0 metres per second (rewind speed)
Media	LTO Ultrium 3 800GB (compressed) data cartridge
Reliability	
MTFB:	250,000 hours at 100% duty cycle
Corrected error rate:	1 in 1 x 10 17 bits read
Loading mechanism:	Powered load with precision eject
Head life:	60,000 hours
Power requirements	
Idle:	13 Watts
Typical:	20 Watts
Maximum:	33 Watts
Power supply/required (int):	5V DC, 2.5A; 12V, 0.7A
Temperature	
Temperature range:	Operating: 50° F to 95° F (10° C to 40° C) at a minimum of 6CFM airflow Storage: -40° F to 151° F (-40° C to 66° C)
Non-condensing humidity range:	Operating: 20 to 80% RH (non-condensing) Storage: 10 to 95% RH (non-condensing)
Standards Compliance	CSA Certification to C22.2, No.60950 (cCSAus), TÜV EN60950 (IEC 60950), CE Declaration of Conformity, FCC 47 CFR Parts 15, NOM, VCCI, C-TICK, RRL, BSMI, GOSH CB Certificate and Report (IEC 60950)
Physical characteristics	
Form factor:	5.25-inch wide, half-height
Dimensions (h x w x d):	1.6 x 5.7 x 8.1 inches (4.1 x 14.5 x 20.6 cm)
Weight:	3.2 lbs (1.45 KG)
Ordering information	
PD000A:	HP LTO Ultrium 3 half-height format SCSI tape drive
PD005A:	HP LTO Ultrium 3 half-height format SAS tape drive
C7972A:	HP LTO Ultrium 800GB (compressed) RW data cartridge
C7973W:	HP LTO Ultrium 800GB (compressed) WORM data cartridge

ULTRIUM LTO 3

powered by hp invent

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